

M-16/M4 STRAC GUIDANCE Ref: FM 3-23.9 & DA PAM 350-38 Para.5-6b. AS OF SEP 05

1. 80% of soldiers assigned M-16/M-4 must Zero and Qualify every 12 months
2. All Soldiers must fire Day (Chap. 6-8), Night (Chap. 7-17) and NBC (Chap. 7-12) Courses.
3. All Soldiers will Zero and Qualify with Iron Sights or Back Up Sights(M-4/ M-16A4). (Chap. 5-2 & 8-3).
4. Soldiers assigned the Close Combat Optical (CCO) will also Zero and Day Qualify with that sight. (Chap. 8-4).
5. All Soldiers will fire Night Unassisted Fire(Iron Sight/ Back Up Sight at 50M)
6. Soldiers assigned Thermal Weapon Sight (TWS) (Chap. 8-5) or Infared Aiming Light (IAL) (Chap. 8-6) will fire Night Assisted Fire.
7. Night Unassisted and NBC Fire will be fired on EST 2000, if available. EST 2000 currently unavailable to AZNG.
8. 25m Alternate Course "C" is only authorized when Modified Record Fire (MRF) or Known Distance Alternate (KD) Courses are unavailable.(Chap. 6-9).
9. Only soldiers assigned CCO,TWS or IAL may conduct Qualifications for those sights
10. Scorecards;
 - a. MRF(popups)- DA 3595-R
 - b. Known Distance- DA 5789-R
 - c. ALT"C"(25M)- DA 5790-R
 - d. Night Fire w/ TWS or IAL-DA 7489-R
11. Official Records of Qualification must reflect Course of Fire used; EXPERT 36 (Record Fire)
EXPERT 38 (Known Distance Alternate Course)
EXPERT 38 (Alternate Course C)
12. Targets- 25M Zero NSN 6920-01-253-4005
25M Alt "C" 6920-01-167-1397
300M KD "E" 6920-00-600-6874
300M KD "F" 6920-00-610-9086

M-16 DAY FIRE FM 3-22.9 w/Change 3 pg 5-25 & 6-14

Zero FM 3-22.9 SECT. 5-2 pg 5-14 to 5-16

1. Ensure Rear Sight is set on 8/3+1up click for M-16A2 or 6/3+1up click for M-16A4 & M-4
2. Ensure Rear Sight is set on 300m, not 800m.
3. Ensure Rear Aperture is centered left to right.
4. Ensure small aperture is used.
5. Soldiers receive a maximum 18 Zero rounds, fired in six 3-shot groups.
- 6 Soldiers may fire Foxhole Supported, Prone Supported or Prone Unsupported.
7. Firers may rest magazine on the ground while Prone Unsupported firing, during Zero and Qualification Phases.

Record Fire- (POPUPS) FM 3-22.9 SECT. 6-8 pg. 6-11 to 6-14.

1. All targets should be checked for proper functioning before Qualification begins.
2. Firer receives two magazines of 20 rounds each.
3. Ensure Rear Sight is set on 8/3 for M-16A2 or 6/3 for M-16A4 & M-4
4. Table I is fired from Foxhole Supported Position.
5. Table II is fired from Prone Unsupported Position.
6. Saved ammunition from Table I cannot be used in Table II.
7. Firers should not "save" ammunition from more difficult shots, to be used on easier shots. One shot fired per target exposed.
8. Soldiers will receive one Practice and one Qualification attempt. Practice firing can be credited as Qualification if desired.
9. Soldiers that do not qualify on the first attempt may refire, but will only receive "Marksman" rating, if they qualify on the second attempt.
10. Expert 36-40
11. Sharpshooter 30-35
12. Marksman 23-29
13. Unqualified 22 and below
14. Available Ranges- Ft. Huachuca Range 8
Camp Navajo TY 07
Florence Military Reservation TY08

Known Distance Alternate Course- FM 3-22.9 SECT. 5-3h pg. 5-25

1. Units must save 6 Sighting Rounds per shooter from Zero Phase of Qualification.
2. Soldiers will fire 6 sighting shots at 300m on Fig"E" silhouette, prone supported
3. Soldiers will fire 20 rounds in two minutes at 300m on Fig"E" silhouette(two magazines of 10 rounds)prone supported
4. Soldiers will fire 10 rounds in one minute at 200m on Fig"E" silhouette, prone unsupported
5. Soldiers will fire 10 rounds in one minute at 100m on Fig"F" silhouette, prone unsupported
6. Bullets touching a silhouette will be scored as hits. Thirty hits maximum on "E" Silhouette and ten hits maximum on "F" silhouette.
7. Expert 38-40
8. Sharpshooter 33-37
9. Marksman 26-32
10. Unqualified 25 and below
11. Available Ranges- Ft. Huachuca Range 6
Camp Navajo TY07
Florence Military Reservation 300m Known Distance

Alternate Course C (25m)- FM 3-22.9 SECT. 6-9 pg. 6-14

1. 25m Alternate Course "C" is only authorized when Modified Record Fire (MRF) or Known Distance Alternate Courses are unavailable.(Chap. 6-9).
2. Table I- Firer will receive two 10 round magazines to engage the 10 silhouettes on the target from the Foxhole Supported or Prone Supported Position within a 2 minute time limit.
3. Table II- Firer will receive two 10 round magazines to engage the 10 silhouettes on the target from the Prone Unsupported Position within a 2 minute time limit.
4. Targets must be replaced between Tables I&II.
5. Bullets touching a silhouette will be scored as hits. Two hits maximum will be scored for each silhouette.
6. Expert 38-40
7. Sharpshooter 33-37
8. Marksman 26-32
9. Unqualified 25 and below
10. Available Ranges- Ft. Huachuca Range 2
Papago Park Military Reservation Ranges 1&2
Florence Military Reservation Day/Night & 30 Pt
Camp Navajo TY 07

M-16 NBC 50m Live Fire FM 3-22.9 Change 3 SECT 7-13 pg 7-22 & 7-23

1. All firers will wear protective masks with hoods. The trainer must allow enough time for the soldier to don this equipment.
2. For this table, the firer receives two magazines containing ten rounds.
3. Ten exposures of the left 50M automated target for 5 seconds each from Foxhole Supported Position.
4. Ten exposures of the right 50M automated target for 5 seconds each from Foxhole Supported Position.
5. At the Commander's discretion, Table II (50-300m Record Fire Prone Unsupported) can be used as an alternate NBC Course of Fire.
6. 11/20=GO
7. At this time, AZNG ranges do not have Foxhole Supported Positions available, Prone Supported Position will be substituted.
8. Available Ranges Florence Military Reservation Day/Night
Ft. Huachuca Range 8
Camp Navajo TY07

M-16 NBC 25m ALTERNATE COURSE FM 3-22.9 Change 3 SECT 7-13 pg. 7-23

1. All firers will be in MOPP4 conditions.
2. NBC Alternate Course will be fired on the Alternate Course C Scaled Target.
3. Firers will receive two magazines of 10 rounds each.
4. Firers will engage each of the 10 silhouettes with 2 rounds within 2 minutes from the Prone Unsupported Position.
5. Bullets touching a silhouette will be scored as hits. Two hits maximum will be scored for each silhouette.
6. 11/20=GO
7. Available Ranges- Ft. Huachuca Range 2
Papago Park Military Reservation Ranges 1&2
Florence Military Reservation Day/Night & 30 Pt
Camp Navajo TY 07

M-16 UNASSISTED NIGHT FIRE FM 3-22.9 Change 3 SECT 7-17 pg. 7-28 to 7-30

1. For this table, the firer receives two magazines containing fifteen rounds each(10 ball/5 tracer).
2. Fifteen exposures of 50M target (F silhouette) for 5 seconds each from Foxhole Supported/Prone Supported Position
3. Fifteen exposures of 50M target ("F" silhouette) for 5 seconds each from Prone Unsupported/ Kneeling Position.
4. Night Fire also requires muzzle flash simulators are installed in each target lane.
5. 7/30=GO
6. The Unit Commander will choose the firing position used, based on the Unit's METL.
7. Available Ranges Florence Military Reservation Day/Night
 Ft. Huachuca Range 8
 Camp Navajo TY07

M-16 Night Assisted Fire Fm 3-22.9 w/Change3 Appx F

AN/PAS-13 Thermal Weapon Sight

1. Zeroing procedures are in FM 3-22.9 SECT 8-5.
2. The Course of Fire and Qualification Standards are identical to Day Qualification on the Record Fire Range (Popups).
3. Due to the likelihood of Crossfiring, only odd numbered lanes should be used
4. Qualification requirements are the same as Day Fire.

Expert 36-40

Sharpshooter 30-35

Marksman 23-29

Unqualified 22 and below

5. Record qualification with the TWS can be done day and or night.
6. During zero, practice and qualification, it is the soldiers preference on polarity and field of view. Retighten the rail grabber after the first three rounds fired

AN/PAQ-4B/C & AN/PEQ-2A Infrared Aiming Laser

1. Zeroing procedures are in FM 3-22.9 SECT 8-6.
2. The IAL can be zeroed either with the 10m Borelight or 25m Zero Target.
3. Retighten rail grabber after the first three rounds are fired
4. Failure to fully tighten the mounting brackets and AN/PEQ2A thumbscrew may cause zero retention problems. Confirm that equipment is tight prior to zeroing.
5. Soldiers should receive in-depth instruction on the proper use and fit of night vision goggles, extensive testing has proven that the average soldier does not properly use night vision devices.
6. Practice Qualification.
 - Conduct dry-fire exercise
 - Use coaches
 - 20 rounds foxhole supported, 20 rounds unsupported
 - Engage targets from 50 to 250 meters
 - Standards are 17 out of 40
7. Record Qualification
 - 20 rounds foxhole supported, 20 rounds unsupported
 - Engage targets from 50 to 250 meters
 - Standards are 17 out of 40

AN/PVS-4 NIGHT VISION DEVICE

1. Zeroing is initially done with 10m Borelight and then confirmed on 25m Zero Target.
2. The course of fire for the AN/PVS-4 sight is the same scenario as with the aiming lasers with the same qualifications standards.
3. Retighten rail grabber after the first three rounds are fired
4. Practice Qualification.
 - Conduct dry-fire exercise
 - Use coaches
 - 20 rounds foxhole supported, 20 rounds unsupported
 - Engage targets from 50 to 250 meters
 - Standards are 17 out of 40
5. Record Qualification
 - 20 rounds foxhole supported, 20 rounds unsupported
 - Engage targets from 50 to 250 meters
 - Standards are 17 out of 40